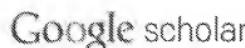


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simulator "black oil" "compositional" synchroni

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L Qin, P Małgorzata, M Wheeler - SPE Reservoir Simulation ..., 2001 - onepetro.org
... processes or mathematical models or by differences in the numerical discretization models applied to different parts of the simulation domain ... single-phase or a two-phase model is needed for the aquifer part of the reservoir, while a **black-oil** model or a **compositional** model is ...

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Simulation of compositional reservoir phenomena on a distributed-memory parallel ...

JE Kilcough, R Bhogeswara - Journal of Petroleum Technology, 1991 - onepetro.org
... connected in some fashion for communication of data and synchronization (Fig. ... Wheeler and Smith6 showed that **black-oil** modeling could be performed efficiently on a ... **Compositional Simulator** The commercial n-component, three-phase, equation-of-state (EOS) model VIP ...
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... work was done in parallel processing. This work is intended carbon components are considered unimportant in **black oil** or **compositional** processes, but are important ... This section describes the application of the above mentioned principles to the general purpose **simulator** ...
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... This has previously been described for the case of a single reservoir **simulation** coupled to a ... system of multiple reservoirs.11 • The use of different PVT models (**black oil** models and ... and Litvak and Wang14 used an implicit scheme to couple a **compositional** reservoir model with ...
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K Ghorayeb, J Holmes, R Torrens - SPE Middle East Oil and Gas ..., 2005 - onepetro.org
... Illustrated in this paper is some of the functionality that is enabled by integrated surface/subsurface modeling. In the following examples, advanced **black oil** and **compositional reservoir simulators** are used. ...
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... The **black oil** model is a simplified **compositional** model. ... PARALLEL COMPUTING IN THE **BLACK OIL MODEL** 261 [8] Origin 2000 and Onyx2 performance tuning and ... Paper SPE 5729 presented at the SPE-AIME Fourth Symposium on Numerical **Simulation** of Reservoir ...
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H Reme, G Øye, M Espedal, G Fladmark - Numerical Treatment of ..., 2000 - Springer
... 2 **Compositional Flow Model** ... Even though our general **simulator** (SOM) [12, 18] includes this complex mathematical model, we have mostly used a simplified version of the model, named the symmetric **Black Oil** (SBO) model [11]. The phase calculation in this model is ...

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... a horizontal 5-spot quadrant 3. A 3-D, 3-phase black oil simulation, the SPE ... a standard comparison problem which was considered previously.3.8 It includes compositional effects in ... is 0.10, the maximum CFL numbers actually calculated during the IMPES simulation were less ...
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